

VOLUME 6, 1970

CONTENTS

Number 1 — issued May 1970

- LINCOLN, R. J. and I. GILCHRIST, An observational pressure vessel for studying the behaviour of planktonic animals. 1
- LINCOLN, R. J., A laboratory investigation into the effects of hydrostatic pressure on the vertical migration of planktonic Crustacea. 5
- WEBER, J. N. and P. M. J. WOODHEAD, Ecological studies of the coral predator *Acanthaster planci* in the South Pacific. 12
- LONG, E. R. and J. B. RUCKER, Offshore marine cheilostome Bryozoa from Fort Lauderdale, Florida. 18
- VERNBURG, F. J. and W. B. VERNBURG, Lethal limits and the zoogeography of the faunal assemblages of coastal Carolina waters. 26
- VERNBURG, W. B. and F. J. VERNBURG, Metabolic diversity in oceanic animals. 33
- MEYERS, S. P., B. E. HOPPER and R. CEFALU, Ecological investigations of the marine nematode *Metoncholaimus scissus*. 43
- NICHOLS, F. H., Benthic polychaete assemblages and their relationship to the sediment in Port Madison, Washington. 48
- MARISCAL, R. N., The nature of the symbiosis between Indo-Pacific anemone fishes and sea anemones. 58
- THEEDE, H. and A. PONAT, Die Wirkung der Sauerstoffspannung auf die Druckresistenz einiger mariner Wirbelloser. [The influence of oxygen tension on the pressure resistance of some marine invertebrates]. 66
- RAMAMURTHY, V. D., Antibacterial activity of the marine blue-green alga *Trichodesmium erythraeum* in the gastro-intestinal contents of the sea gull *Larus brunicephalus*. 74
- LECLERC, M. et J. AUGARDE, Effets de l'ablation de l'organe axial sur l'activité respiratoire chez *Asterina gibbosa* (échinodermes, astérides). [Effects of the removal of the axial organ on the respiratory activity of *Asterina gibbosa* (echinoderms, asterids)]. 77
- DEELDER, C. L. und F. W. TESCH, Heimfindevermögen von Aalen (*Anguilla anguilla*), die über große Entfernungen verpflanzt worden waren. [Homing abilities of eels (*Anguilla anguilla*), which had been transplanted over long distances]. 81

Number 2 — issued June 1970

- STEEMANN NIELSEN, E. and S. WIUM-ANDERSEN, Copper ions as poison in the sea and in freshwater. 93
- RUDJAKOV, J. A., The possible causes of diel vertical migrations of planktonic animals. 98
- FISHELSON, L., Littoral fauna of the Red Sea: the population of non-scleractinian anthozoans of shallow waters of the Red Sea (Eilat). 106
- CZECZUGA, B., Presence of β -carotene and a number of xanthophylls in *Hyale perieri* (Crustacea: Amphipoda) from the Black Sea. 117
- GAMBLE, J. C., Effect of low dissolved oxygen concentrations on the ventilation rhythm of three tubicolous crustaceans, with special reference to the phenomenon of intermittent ventilation. 121
- KERAMBRUN, P., Remplacement de *Sphaeroma serratum* par *S. hookeri* dans l'Etang de Berre par suite de sa dessalure. [Replacement of *Sphaeroma serratum* by *S. hookeri* in Etang de Berre by means of its desalination]. 128
- DAMBACH, M. und G. HENTSCHEL, Die Bedeckungsreaktion von Seeigeln. Neue Versuche und Deutungen. [The covering reaction in sea urchins. New experiments and interpretations]. 135
- WELSCH, U. and V. STORCH, Histochemical and fine structural observations on the alimentary tract of Aphroditidae and Nephthyidae (Polychaeta Errantia). 142
- TESCH, F.-W., Heimfindevermögen von Aalen *Anguilla anguilla* nach Beeinträchtigung des Geruchssinnes, nach Adaptation oder nach Verpflanzung in ein Nachbar-Ästuar. [Homing capacity of eels *Anguilla anguilla* after obstruction of the olfactory sense, after adaptation, or after transplantation into a neighbouring estuary]. 148

VOLUME 6, 1970 CONTENTS (continued)

SCHEIL, H.-G., Beiträge zur Temperaturadaptation des Aales *Anguilla anguilla* IV. Einfluß der Adaptationstemperatur auf den denervierten Seitenmuskel. [Contributions to the temperature adaptation of the eel *Anguilla anguilla*. IV. Influence of adaptation temperature on the denervated lateral muscle]. 158

MENKER, D., Lebenszyklus, Jugendentwicklung und Geschlechtsorgane von *Rhabdomoligus ruber* (Holothuroidea: Apoda). [Life-cycle, post-embryonic development and gonads of *Rhabdomoligus ruber* (Holothuroidea: Apoda)]. 167

Number 3 — issued July 1970

VINOGRADOV, M. E., I. I. GITELZON and YU. I. SOROKIN, The vertical structure of a pelagic community in the tropical ocean. 187

EPFLEY, R. W., T. T. PACKARD and J. J. MACISAAC, Nitrate reductase in Peru current phytoplankton. 195

MICHEL, A. et R. GRANDPERRIN, Sélection du chalut pélagique Isaacs-Kidd 10 pieds. [Selection of the 10-foot Isaacs-Kidd midwater trawl]. 200

BOHLING, H., Untersuchungen über freie Aminosäuren in Meerwasser. [Investigations on free dissolved amino acids in sea water]. 213

BLUMER, M., M. M. MULLIN and R. R. L. GUILLARD, A polyunsaturated hydrocarbon (3, 6, 9, 12, 15, 18-heneicosahexaene) in the marine food web. 226

ALEXANDER, C. G., The osphradium of *Conus flavidus*. 236

RADIL-WEISS, T., L. LAKOČEVIĆ and Z. DAMJANOVIĆ, Spontaneous activity of neurons in the visceral ganglion of *Aplysia depilans*. 241

VYNCKE, W., Influence of biological and environmental factors on nitrogenous extractives of the spurdog *Squalus acanthias*. 248

BALAKRISHNAN, K. P. and C. B. LALITHAMBIKA DEVI, Preliminary observations on the circulatory system in eggs and early larvae of some teleostean fishes. 256

PATENT, D. H., The early embryology of the basket star *Gorgonocephalus caryi* (Echinodermata, Ophiuroidea). 262

TREVALLION, A., A. D. ANSELL, P. SIVADAS and B. NARAYANAN, A preliminary account of two sandy beaches in South West India. 268

Number 4 — issued August 1970

MEINCKE, K. F., Der Einfluß von Temperaturänderungen auf den Ionen- und Wassergehalt in Blutplasma und Geweben von *Tinca tinca*. [The influence of temperature variations on the ion and water content in blood plasma and tissues of *Tinca tinca*]. 281

ALI, R. M., The influence of suspension density and temperature on the filtration rate of *Hiatella arctica*. 291

GALKINA, L. A., Fertilization and early developmental stages of eggs of *Clupea harengus pallasii* n. *maris-albi* under fresh-water conditions. 303

BEN-YAMI, M., A. HERZBERG, S. PISANTY and A. LOURIE, A side-tracking neuston net. 312

MILEIKOVSKY, S. A., Breeding and larval distribution of the pteropod *Clione limacina* in the North Atlantic, Subarctic and North Pacific Oceans. 317

BOLTOVSKOY, E., Distribution of the marine littoral Foraminifera in Argentina, Uruguay and Southern Brazil. 335

PRESTON, A., Concentrations of iron-55 in commercial fish species from the North Atlantic. 345

MILEIKOVSKY, S. A., The influence of pollution on pelagic larvae of bottom invertebrates in marine nearshore and estuarine waters. 350

REEVE, M. R., J. E. G. RAYMONT and J. K. B. RAYMONT, Seasonal biochemical composition and energy sources of *Sagitta hispida*. 357

